

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad – 5000 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by the AICTE, PCI & Affiliated to Osmania University)

Recognized under section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGCET Code: RBVW1

www.Rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com



Invites you to the
Certificate Course on

“PROFESSIONAL DEVELOPMENT”



Date:
8th Jul 2019

Venue:
Seminar Hall

Convener: Prof. M. Sumakanth
Principal of RBVRR Women's College of Pharmacy

Guest of Honor: Prof. K. Muthyam Reddy
Hon. Secretary & Correspondent of RBVRR Women's College of Pharmacy

Programme Schedule

| DATE | SPEAKER |
|---|---|
| 8th – 9th Jul 2019 | Prof. V. Viswanathan Retd. Professor Osmania University |
| 10th – 11th Jul 2019 | Mrs. P. Swathi Psychologist |
| 12th -13th Jul 2019 | Prof. Sumita Roy Retd. Professor Osmania University |
| 15th Jul 2019 | Prof. M. Sumakanth Principal RBVRR Women's College Of Pharmacy |



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| Value Added Course | | |
|---|-------------------|--------------------------------|
| Course: PROFESSIONAL DEVELOPMENT | | |
| Code: PDC002 | Credits: 2 | Total No. of Hours : 36 |

Introducing Professional development skills as a course to students helps them to succeed in their academic and personal lives, build up strong relationships, and improve their overall well-being. Professional development skills are not only for personal growth but also for professional success. These courses cover a wide range of topics, from leadership skills to technical skills. Below is an outline that covers the basic aspects of various types of Professional Development Skills.

Course Objectives:

The Professional development skills course objective is to create oneself aiming at advancing their career and enhancing their skills and talents in the workplace.

The specific course objectives provides, explores and familiarize the students with insights on Time Management, Advanced writing skills, Interview skills, Leadership skills and Research skills which are important for building up their career.

Professional development skills refer to the abilities and traits that help individuals grow and improve. Here are some reasons why professional development skills matter for individuals:

1. Improved Self-Awareness

Personal development skills help students become more self-aware. This means understanding their strengths, weaknesses, values, and goals. By developing self-awareness, students can make better decisions and find more fulfillment in their lives.

2. Better Communication

By developing communication skills, students can improve their relationships with peers, professors, and future employers.

3. Goal Setting and Time Management

College students have a lot on their plates, from coursework to extracurricular activities. By developing goal-setting and time-management skills, students can prioritize their tasks and make the most of their time.

4. Adaptability and Resilience

Life is unpredictable, and students will inevitably face challenges and setbacks. By developing adaptability and resilience, students can bounce back from setbacks and overcome obstacles.

By the end of the program, participants will be aware about all that are required for their career development i.e from leadership skills to technical skills.

SYLLABUS

| | | |
|--|--------------------------------|----------------|
| Unit 1 | Time Management | 6 Hours |
| <p>Time Management: What Is Time Management, Why Time Management Is Important.</p> <p>Setting Goals: Goals and Targets, Setting SMART Goals, Your Own SMART Goals</p> <p>Planning Tips and Tricks: Planning Tools Setting Priorities Prioritizing Your Tasks Your To-Do List Managing Interruptions and Distractions Tips for Controlling Disruptions</p> | | |
| Unit 2 | Advanced Writing Skills | 7 Hours |
| <p>The C's of Writing: Writing Clearly, Writing Concisely, Making Connections, Writing Correctly, Choosing Your Sources</p> <p>Writing Mechanics: Building Paragraphs, Proper Paragraphs, More on Paragraphs, Making Connections</p> <p>Dealing with Specific Requests: Types of Letters, Keeping it Real</p> <p>Preparing Business Documents: Requests for Proposals, The Proposals, The Differences When Writing Proposals, Ten Steps of Proposal Writing, Writing Reports, Documentation</p> | | |
| Unit 3 | Interview Skills | 5 Hours |
| <p>Interview Skills: Purpose of an interview, Do's and Dont's of an interview , E-Mail etiquette</p> <p>Giving Presentations: Dealing with Fears, planning your Presentation, Structuring Your Presentation, Delivering Your Presentation, Techniques of Delivery</p> <p>Group Discussion: Introduction, Communication skills in group discussion, Do's and Dont's of group discussion</p> | | |
| Unit 4 | Leadership Skills | 9 Hours |
| <p>Introduction to Leadership: Roles, functions and characteristics of a leader; evolution and growth of leadership; Leadership traits and ethics; Attitude, Behaviour, Personality traits and leadership; Types and Styles of leadership</p> <p>Leadership and Management: Nature, Scope and Significance of Management; Levels of Management; Functions: Planning, Organizing, Staffing, Directing and Controlling; Skills: Conceptual, Human and Technical; Roles: Interpersonal, Informational and Decisional; difference between a leader and a manager</p> <p>Theories of Leadership: Trait Theory, Behavioural theories, Contingency Theories, Transactional Theories and Transformational Leadership Theory</p> <p>Issues and Challenges for Leaders: Immerging trends in leadership; Servant leadership, Situational leadership; Gender and leadership; Effective Leadership Communication; Emotional intelligence and leadership</p> | | |
| Unit 5 | Research Skills | 9 Hours |
| <p>Introduction to Research and Research Design Nature and scope of research, information based decision making and source of knowledge. The research process; basic approaches and terminologies used in research. Defining research question and framing of hypotheses, Preparing a research plan, qualitative and quantitative research designs, Experimentation, Observational studies, Exploring secondary data.</p> | | |

Measurement and Scaling, Data Source and Data Collection

Field research; primary data collection from observations, surveys and experimentation. Measurement and scaling; commonly used scales in reliability and validity of scales. Designing instrument for data collection; testing the instrument, data collection process, Sampling methods and procedures and sample size decisions.

Data Analysis

Editing and coding of data, tabulation, graphic presentation of data, cross tabulation, Testing of hypotheses; type I and II errors, one tailed and two tailed tests of significance, Parametric and nonparametric tests for Univariate and Bivariate data. Tests of association; simple linear regression and other nonparametric tests.

Report Writing and Presentation

Need for Effective documentations, Importance of Report Writing, types of research reports Report structure, Report preparation and presentations , Tables, Graphs, Charts, Referencing etc.

Professional Development Course Outcomes:

After the successful completion of this module the learners will be able to inspire individuals, manage talent, influence, lead teams, resolve conflict, build trust, increase cooperation and enhance productivity.

1. Demonstrate knowledge of and apply the basic principles of productivity to their own life.
2. Identify personal priorities and goals.
3. Identify how to maximize their time in order to accomplish their goals both personally and professionally
4. Students can effectively manage the team as a team player.

Develop interview skills and Leadership qualities which Helps to develop critical appreciation

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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON – PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY – 1 & 2 (Session 1 & 2)

1. Name of the participant and institute: Birdhu Sree
2. Name of the institute: RBVRR women's college of pharmacy
3. Email id of the participant : Birdhusree@osmania
4. How was the content delivered by the speaker? (Prof.V.Vishwanathan)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Personality Trait includes
 - a) Communication skills
 - b) Ability to work in a team
 - c) Leadership skills
 - d) All the above
7. Group discussion enables ones ability to think – (TRUE / FALSE)
 TRUE
8. Types of group discussions include
 - a) Controversial
 - b) Factual
 - c) Abstract
 - d) All of the Above
9. Group discussion is Exchange of information.
10. Was the session helpful and would you like to attend more sessions like this?
 - Yes
 - No
 - Maybe

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CERTIFICATE COURSE ON – PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY – 1 & 2 (Session 1 & 2)

1. Name of the participant and institute: Dr. Rama' Akhila
2. Name of the institute: RBVRRWOP
3. Email id of the participant : Akhilamagnat.com
4. How was the content delivered by the speaker? (Prof.V.Vishwanathan)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Personality Trait includes
 - a) Communication skills
 - b) Ability to work in a team
 - c) Leadership skills
 - d) All the above
7. Group discussion enables ones ability to think – (TRUE / FALSE)
8. Types of group discussions include
 - a) Controversial
 - b) Factual
 - c) Abstract
 - d) All of the Above
9. Group discussion is exchange of information
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CERTIFICATE COURSE ON – PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY – 3&4 (Session 1&2)

1. Name of the participant and institute: Bhavani
2. Name of the institute: RBVRR womens college of pharmacy
3. Email id of the participant: Bhavaniinfo@gmail.com
4. How was the content delivered by the speaker? (Mrs.P.Swathi)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Writing skills are important as it serves as medium through which we communicate – True / False
7. Clear and effective communication of ideas includes
 - a) Purpose relevance and justification of writing
 - b) Content relevance and clarity
 - c) Word choice and idioms usage
 - d) All of the above
8. Different types of writings include
 - a) Expository Writing
 - b) Descriptive Writing
 - c) Persuasive Writing
 - d) All the Above
9. Resume is a summary of one's information
10. Was the session helpful and would you like to attend more sessions like this?
 - Yes
 - No
 - Maybe

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CERTIFICATE COURSE ON – PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY – 3&4 (Session 1&2)

1. Name of the participant and institute: Sushmitha
2. Name of the institute: RBVRRWCOLP
3. Email id of the participant: Sushmitha6@gmail.com
4. How was the content delivered by the speaker? (Mrs.P.Swathi)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Writing skills are important as it serves as medium through which we communicate – True / False
 - True
 - False
7. Clear and effective communication of ideas includes
 - a) Purpose relevance and justification of writing
 - b) Content relevance and clarity
 - c) Word choice and idioms usage
 - d) All of the above
8. Different types of writings include
 - a) Expository Writing
 - b) Descriptive Writing
 - c) Persuasive Writing
 - d) All the Above
9. Resume is a summary of one's information
10. Was the session helpful and would you like to attend more sessions like this?
 - Yes
 - No
 - Maybe

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CERTIFICATE COURSE ON – PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY – 5&6 (Session 1&2)

1. Name of the participant and institute: tulasi
2. Name of the institute: RBVRR WCOOP
3. Email id of the participant: tulasi.jetti@gmail.com
4. How was the content delivered by the speaker? (Prof. Sumita Roy)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Leadership is the ability of directing the group to achieve goals
7. What are the most important roles of a good leader?
 - a) Motivational Team Members
 - b) A Good Communicator
 - c) Unity
 - d) All of the above
8. What are the qualities of a good leader?
 - a) High level intelligence
 - b) Emotional Stability
 - c) Motivating others
 - d) All of the above
9. A leaders most important function is to achieve desired goals
10. Was the session helpful and would you like to attend more sessions like this?
 - Yes
 - No
 - Maybe

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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 5&6 (Session 1&2)

1. Name of the participant and institute: Supriya
2. Name of the institute: RBVRR WOP
3. Email id of the participant: supriya@gmail.com
4. How was the content delivered by the speaker? (Prof. Sumita Roy)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Leadership is the ability of directing the group to achieve goals.
7. What are the most important roles of a good leader?
 - a) Motivational Team Members
 - b) A Good Communicator
 - c) Unity
 - d) All of the above
8. What are the qualities of a good leader?
 - a) High level intelligence
 - b) Emotional Stability
 - c) Motivating others
 - d) All of the above
9. A leader's most important function is to achieve desired goals
10. Was the session helpful and would you like to attend more sessions like this?
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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 7 (Session 1&2)

1. Name of the participant and institute: areeba
2. Name of the institute: RBVRRWCOLP
3. Email id of the participant: areebafatima@gmail.com
4. How was the content delivered by the speaker? (Prof. M. Sumakanth)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Observational Studies include -
 - a) Cohort studies
 - b) Case control studies
 - c) Cross control studies
 - d) All the above
7. By controlling the conditions, experimental studies establish Independent
8. Key features of Experimental studies are -
 - a) Randomized Controlled trials
 - b) Control groups
 - c) None of the above
 - d) All of the above
9. Observational research studies involve gathering data
10. Was the session helpful and would you like to attend more sessions like this?
 - Yes
 - No
 - Maybe

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CERTIFICATE COURSE ON - PROFESSIONAL DEVELOPMENT

FEEDBACK FORM DAY - 7 (Session 1&2)

1. Name of the participant and institute: Neandika
2. Name of the institute: RBVRR women's college of pharmacy
3. Email id of the participant: Neandika@gmail.com
4. How was the content delivered by the speaker? (Prof. M. Sumakanth)
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. Observational Studies include -
 - a) Cohort studies
 - b) Case control studies
 - c) Cross control studies
 - d) All the above
7. By controlling the conditions, experimental studies establish Independent
8. Key features of Experimental studies are-
 - a) Randomized Controlled trials
 - b) Control groups
 - c) None of the above
 - d) All of the above
9. Observational research studies involve gathering data
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 - Maybe

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A 10 DAY CERTIFICATE COURSE IN PHARMACOVIGILANCE 2019

In Association with our Training Partner:



COURSE BENEFITS

- Career Guidance and Resume Writing Skills
- Intensive 36-Hour Training by Industry Experts
- Hands-on Real-Time Practice Completion Certificate.

Registration Fee - Rs 1500/-

Last Date for Registration:

29th Oct 2019.

Payment: Gpay to 7416614919

About RBVRR Women's College of Pharmacy:

RBVRR Women's College of Pharmacy, founded in the year 2006, operates successfully under Hyderabad Mahila Vidhya Sangam, guided by the visionary leadership of its Founder Principal, Prof. M. Sumakanth, with a core mission of offering education to young women. The college has spacious classrooms, well-equipped laboratories with the latest equipment, and well-furnished seminar hall, conference room and library with a good number of the latest editions of both textbooks and reference books. The college is recognized as research centre by Osmania University. The college is offering the following courses:

- B.Pharmacy (100 seats)
- Pharm.D (32)
- M.Pharmacy (Pharma.Chemistry, Pharmaceutics, Pharm.Analysis and Pharmacology).

About ClinoSol:

Founded in 2019, ClinoSol is a dynamic and forward-thinking healthcare company dedicated to transforming the way medical solutions are delivered. With a strong focus on innovation, ClinoSol has emerged as a pioneer in the industry, continuously striving to improve patient outcome and enhance healthcare systems globally. ClinoSol's products and services are tailored to serve the industry needs, thus, students can benefit from engaging with ClinoSol's professional tone of voice as they explore the innovative advancements in healthcare.

About the Course

- The 10-Day Hands-on Certificate course in Pharmacovigilance aims to provide participants with a comprehensive understanding of pharmacovigilance principles and practices.
- Through interactive sessions and practical exercises, attendees will learn about the importance of drug safety monitoring, adverse event reporting, and risk management strategies.
- The workshop will also cover the regulatory framework surrounding Pharmacovigilance and the role of various stakeholders in ensuring drug safety.
- Assist students in selecting a career path in pharmacovigilance.

SCHEDULE AND SYLLABUS

| DATE | MODULE # | TOPIC | SPEAKER | DURATION |
|---------------------------|-----------|---|-----------------|----------|
| 31 st oct 2019 | Module 1 | Introduction to Clinical Research and Pharmacovigilance | C.S Mujeebuddin | 4 Hours |
| 1 st Nov 2019 | Module 2 | Case processing workflow | C.S Mujeebuddin | 4 Hours |
| 2 nd Nov 2019 | Module 3 | Causality Assessment | Dr.Mitesh Reddy | 4 Hours |
| 4 th Nov 2019 | Module 4 | Expedited Reporting | Dr.Mitesh Reddy | 3 Hours |
| 5 th Nov 2019 | Module 5 | Narrative Writing | C.S Mujeebuddin | 4 Hours |
| 6 th Nov 2019 | Module 6 | Medical Coding in PV | C.S Mujeebuddin | 3 Hours |
| 7 th Nov 2019 | Module 7 | Signal Management | Uma Priya | 3 Hours |
| 8 th Nov 2019 | Module 8 | Aggregate Reporting | Uma Priya | 4 Hours |
| 9 th Nov 2019 | Module 9 | Hands on Exercises | Uma Priya | 4 Hours |
| 9 th Nov 2019 | Module 10 | Hands on Exercises and Assessment | Uma Priya | 4 Hours |

| | | |
|--|------------|-----------------------|
| An Intensive Practice based Certification Course on | | |
| PHARMACOVIGILANCE | | |
| Code:PVCC002 | Credits: 2 | Course duration:36hrs |

This certificate course is designed to equip participants with a deep understanding of pharmacovigilance principles, methodologies, and practical applications. This course is a unique blend of theoretical knowledge and practical skills, providing participants with a solid foundation for a successful career in pharmacovigilance.

OBJECTIVE: This course is exclusively designed for Graduates in Pharmacy and Bio-Sciences, Medical Professionals, junior professionals in Pharmaceutical and IT Industry and also for B.Pharm, Pharm D, M.Pharm pursuing students and to embrace the tactical aspects of Pharmacovigilance .

SYLLABUS

| | | |
|--|--|-------------|
| Module I | Introduction to Pharmacovigilance | 4hrs |
| Introduction to Clinical Research and Pharmacovigilance. Historical perspectives and Current Status of pharmacovigilance. National and international aspects of PV . | | |
| Module II | Case Processing Workflow | 4hrs |
| Adverse Drug Reactions - Types, detection and reporting methods. Sources of Cases: Unsolicited Reports, Solicited reports, contractual agreements, Regulatory Authorities, Steps in case processing. | | |
| Module III | Causality Assessment | 4hrs |
| Factors Considered in Causality Assessment, Methods and Tools for Causality Assessment, Methods and Tools for Causality Assessment, Case studies. | | |
| Module IV | Expedited Reporting | 3hrs |
| Types of Regulatory reporting, Criteria for Expedited Reporting, Time Frames, Channels of reporting, Regulatory obligations. | | |
| Module V: | Narrative Writing | 4hrs |
| Narrative Writing objectives, regulatory frame work, Template of narrative writing. Case Studies. | | |
| Module VI | Medical Coding in PV | 3hrs |
| Medical coding: Introduction, WHO adverse reactions, terminologies, Med DRA and Standardized Med DRA. | | |
| Module VII | Signal Management | 3hrs |
| Signal terminologies, Methods of signal detection. Signal Management process flow, Qualitative and Quantitative signal detection, Analysis of different data sources. | | |
| Module VIII | Aggregate Reporting | 4hrs |
| Types of aggregate reporting , Reporting intervals, communication to regulatory authorities | | |
| Module IX | Practical session on Narrative Writing. | 4hrs |
| Exercises on Spontaneous reports, | | |
| Module X | Practical session on Causality assessment and Med DRA | 4hrs |
| Assessment of Causality based on Naranjo scale for the given cases, Med DRA Coding Demo | | |

COURSE OUT COMES

After completion of this course Participants can

1. Understand the basics of Pharmacovigilance and current status of Indian and Global Pharmacovigilance.
2. Explain Qualitative and Quantitative signal detection and perform Signal detection and management.
3. Gain insights into the significance of adverse event reporting and effective risk management strategies in the pharmaceutical industry
4. Equip with valuable knowledge and skills, fostering understanding of pharmacovigilance principles and preparing them for potential careers in this field.
5. Familiarize with real-world pharmacovigilance scenarios through Hands-on training sessions.

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CERTIFICATE COURSE ON PHARMACOVIGILANCE 2019

FEEDBACK FORM

1. Name of the participant: Bhavana Rai
2. Name of the institute: RBVRR Women's College of Pharmacy
3. Email id of the participant : bhavana123@gmail.com
4. How was the content delivered by the speaker?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
5. How do you rate the session?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
6. Solicited reports among the following ?
 - a. Clinical trials
 - b. Literature reports
 - c. Spontaneous reports
 - d. Internet reports
7. SIOMS-1 form is accepted standard for expedited AE reporting.
8. Ultrasound SAE Reports will be received from
 - a. Solicited source
 - b. Unsolicited source
 - c. Contractual agreements
 - d. All of the above.
9. Investigation is responsible for regulatory opening
10. Would you like to attend more sessions like this?
 - a. Yes
 - b. No

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CERTIFICATE COURSE ON PHARMACOVIGILANCE 2019

FEEDBACK FORM

1. Name of the participant: Pooja Kumari
2. Name of the institute: RBVRR Women's college of pharmacy
3. Email id of the participant : Pooja kumari 452 @ gmail com
4. How was the content delivered by the speaker?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
5. How do you rate the session?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
6. Solicited reports among the following ?
 - a. Clinical trials
 - b. Literature reports
 - c. Spontaneous reports
 - d. Internet reports
7. SIOMS - I form is accepted standard for expedited AE reporting.
8. Ultrasound SAE Reports will be received from
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 - a. Yes
 - b. No

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Certificate course on GREEN CHEMISTRY IN DRUG DISCOVERY-2019 02nd -09th Dec 2019

COURSE BENEFITS:

- Learn about principles of green chemistry.
- Gain hands on training on microwave synthesizer
- Learn about design of nano-catalysts and significance of phase transfer catalysts and Biocatalysts in drug discovery.

Registration Link: <https://forms.gle/Yu9WvuzVo2LvQbjV8>

Registration Fee: 850/-

Last Date for Registration: 30th Nov 2019

Gpay Number : 7702236567

ABOUT RBVRR WOMEN'S COLLEGE OF PHARMACY

RBVRR Women's College of Pharmacy, founded in the year 2006, operates successfully under Hyderabad Mahila Vidhya Sangam, guided by the visionary leadership of its Founder Principal, Prof. M. Sumakanth, with a core mission of offering education to young women. The college has spacious classrooms, well-equipped laboratories with the latest equipment, and well-furnished seminar hall, conference room and library with a good number of the latest editions of both textbooks and reference books.

The college is offering the following courses:

1. B.Pharmacy (100seats)
2. Pharm. D (32seats)
3. M.Pharmacy (Pharma. chemistry, Pharmaceutics, Pharm. Analysis and Pharmacology)

VISION

To lead the way in impacting lives via a creative, tenacious, and caring approach to pharmacy education as a National Women's Pharmacy Professional.

MISSION

Besides from the traditional curriculum, RBVRRWCP empowers and prepares female students for success in a changing society through on-going awareness programs.

CERTIFICATE COURSE ON GREEN CHEMISTRY 2019

AIM:

This certificate course aims to enhance understanding about the importance of green chemistry in medication design and development. The course focuses on the fundamentals of green chemistry, design, alternative energy sources, green synthesis catalysis, and contemporary green chemistry developments.

OBJECTIVES

- To familiarize with green chemistry.
- To learn about green reagents, green solvents, green catalysts and reaction conditions.
- To know about greener technologies and alternative energy sources.
- To learn about renewable resources and greenhouse effect.
- To know the importance of catalysis in green synthesis.
- To know various techniques in green chemistry based on current needs.
- To learn the various green techniques and the technology behind them.

| | | |
|---|------------|----------------------------|
| Value added course | | |
| Course: Green chemistry in drug discovery | | |
| Code: GCDCC002 | Credits: 4 | Total No. of Hours: 36hrs. |

SYLLABUS

UNIT I: PRINCIPLES AND CONCEPTS OF GREEN CHEMISTRY 6 HRS

Introduction, principles of green chemistry, sustainable development and green chemistry. Atom economic reactions - rearrangement and addition reactions. Atom un-economic reactions - substitution, elimination reactions.

UNIT II: DESIGNING A GREEN SYNTHESIS

7 HRS

Role of green synthesis in drug discovery Green discoveries; greener reagents, role of green catalysts in organic synthesis, Sustainable synthesis of pharmaceuticals. Development of Photo enzymatic Strategies for Selective Organic Synthesis—Focus on Advantages and Challenges

UNIT III: GREENER TECHNOLOGIES AND ALTERNATIVE ENERGY SOURCES 7 HRS

Chemistry using Microwaves: Microwave heating and microwave-assisted reactions in water, reactions in organic solvents, solvent free reactions. Sonochemistry & Electrochemical synthesis with examples.

UNIT IV: RENEWABLE RESOURCES AND GREENHOUSE EFFECT
8 HRS

Biomass as a renewable resource: Fossil fuels, biomass, solar power, fuel cells and other forms of renewable energy. Chemicals and polymers from renewable feedstock. Greenhouse effect and Global Warming - Introduction - How the greenhouse effect is produced - Major sources of greenhouse gasses - Emissions of CO₂ - Impact of greenhouse effect on global climate. Control and remedial measures of greenhouse effect. Global warming- A serious threat to life on earth.

UNIT V: CATALYSIS IN GREEN SYNTHESIS.

8 HRS

The design of Nano-catalysts for energy and environmental applications. Phase Transfer Catalysts: Introduction, mechanism of catalytic action, type of catalysts and its advantages, Application of Phase transfer catalysis in green synthesis. Biocatalysts: Introduction, Biochemical oxidations and reductions.

CERTIFICATE COURSE ON GREEN CHEMISTRY 2019

| DATE | MORNING SESSION (10.30AM-1.00PM) | AFTERNOON SESSION (2.00PM-4.30PM) |
|---------------------------|---|---|
| 02 nd Dec 2019 | Prof. B.M. Reddy FNAE, FNASc, FRSC, FTASc, FAPASc Senior Professor Emeritus Department of Chemistry BITS Pilani, Hyderabad Campus Hyderabad | Dr. Jeevana Jyothi HOD, Associate Professor RBVRR Women's College Department of Chemistry & Forensic Science Barkatpura |
| 03 rd Dec 2019 | Prof. M Thirumala Chary Professor of Emeritus, Chemistry JNTUH University College of Engineering , Science & Technology Hyderabad | Prof. B.M. Reddy FNAE, FNASc, FRSC, FTASc, FAPASc Senior Professor Emeritus Department of Chemistry BITS Pilani, Hyderabad Campus Hyderabad |
| 04 th Dec 2019 | Dr. Jeevana Jyothi HOD, Associate Professor RBVRR Women's College Department of Chemistry & Forensic Science Barkatpura | Prof. M Thirumala Chary Professor of Emeritus, Chemistry JNTUH University College of Engineering , Science & Technology Hyderabad |
| 05 th Dec 2019 | Prof. B.M. Reddy FNAE, FNASc, FRSC, FTASc, FAPASc Senior Professor Emeritus Department of Chemistry BITS Pilani, Hyderabad Campus Hyderabad | Dr. Jeevana Jyothi HOD, Associate Professor RBVRR Women's College Department of Chemistry & Forensic Science Barkatpura. |
| 06 th Dec 2019 | Hands on training | |
| 07 th Dec 2019 | Prof. B.M. Reddy FNAE, FNASc, FRSC, FTASc, FAPASc Senior Professor Emeritus Department of Chemistry BITS Pilani, Hyderabad Campus Hyderabad | Prof. M Thirumala Chary Professor of Emeritus, Chemistry JNTUH University College of Engineering , Science & Technology Hyderabad |
| 09 th Dec 2019 | Prof. M. Sumakanth Principal, RBVRR Women's College of Pharmacy Valedictory Session | Prof. M. Sumakanth Principal, RBVRR Women's College of Pharmacy Valedictory Session |

Program Coordinator:

Dr. M.Vijaya Bhargavi

Associate Professor & Head

Department of Pharmaceutical Chemistry

RBVRR Women's College of Pharmacy.

Contact no.: 98480 54391

For Queries Contact

Mrs V. Padmaja: 9849583030

Mrs P. Archana: 8660723852

RBVRR WOMEN'S COLLEGE OF PHARMACY

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd – 09th Dec 2019

FEEDBACK FORM DAY – 1 SESSION – 1 & 2:

- Name of the participant: A. Sridha
- Name of the institute: RBVRR Women's College of Pharmacy
- Email id of the participant : -
- How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
- The father of green chemistry is
 - Born haber
 - Nario taniguchi
 - Richard feynman
 - Paul T. Anastas
- Green solvents are derived from the processing of natural products.
- Ultrasound assisted reactions generally occur in the range of _____.
 - 20KHz - 20KHz
 - Less than 20Hz
 - 20KHz to 10 GHz
 - More than 10Hz.
- Which of the following is the greenest solvent?
 - Formaldehyde
 - Benzene
 - Ethanol
 - Water
- Would you like to have more sessions like this?
 - Yes
 - No

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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd - 09th Dec 2019

FEEDBACK FORM DAY - 1 SESSION - 1 & 2:

1. Name of the participant: Ayesha Begum
2. Name of the institute: RBVRR women's college of pharmacy.
3. Email id of the participant: _____
4. How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. The father of green chemistry is
 - a) Born haber
 - b) Nario taniguchi
 - c) Richard feynman
 - d) Paul T. Anastas
7. Green solvents are derived from the processing of agricultural products.
8. Ultrasound assisted reactions generally occur in the range of _____.
 - a) 20KHz - 20KHz
 - b) Less than 20Hz
 - c) 20KHz to 10 GHz
 - d) More than 10Hz.
9. Which of the following is the greenest solvent?
 - a) Formaldehyde
 - b) Benzene
 - c) Ethanol
 - d) Water
10. Would you like to have more sessions like this?
 - Yes
 - No

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CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd – 09th Dec 2019

FEEDBACK FORM DAY - 2 :

- Name of the participant and institute : B. Manasa
- Name of the institute: RBVRR women's college of pharmacy
- Email id of the participant : -
- How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
- What is environmental impact factor?
Ratio of compound released in environment to natural release of compound
- One of the principles of green chemistry says that to produce _____ goods.
 - a) Harmful
 - b) Commercial
 - c) Safer
 - Most used
- Give an example for atom economic reaction
Diels aldes reaction.
- SDG Stands for Sustainable development goals.
- Would you like to have more sessions like this?
 - Yes
 - No

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CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd - 09th Dec 2019

FEEDBACK FORM DAY - 2 :

- Name of the participant and institute : B. Nounika
- Name of the institute: RBVRR women's college of pharmacy.
- Email id of the participant : _____
- How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
- What is environmental impact factor?
Ratio of compound released in environment to
natural release of compound.
- One of the principles of green chemistry says that to produce safer goods.
 - a) Harmful
 - b) Commercial
 - Safer
 - d) Most used
- Give an example for atom economic reaction
Diels alder reaction.
- SDG Stands for sustainable development goals.
- Would you like to have more sessions like this?
 - Yes
 - No

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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd – 09th Dec 2019

FEEDBACK FORM DAY - 4

1. Name of the participant and institute : C. Remu Sai
2. Name of the institute: RBVRR women's college of pharmacy
3. Email id of the participant : -
4. How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. The selection of reagent is made on basis of
 - a) Efficiency
 - b) Availability
 - c) its effect on environment
 - d) All the above
7. What is Microencapsulated Lewis acid can be reused upto 12 times.
8. Enzymatic fermentation is used for production of antibiotics.
9. When Biochemical reactions are
 - a) Chemo selective
 - b) Regio selective
 - c) Stereo selective
 - d) All the above.
10. Would you like to attend more sessions like this?
 - Yes
 - No

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Barkatpura, Hyderabad- 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd – 09th Dec 2019

FEEDBACK FORM DAY – 4

1. Name of the participant and institute : D. Vinetha
2. Name of the institute: rbvrrwlop
3. Email id of the participant : -
4. How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
5. How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
6. The selection of reagent is made on basis of
 - a) Efficiency
 - b) Availability
 - c) its effect on environment
 - All the above
7. What is Microencapsulated Lewis acid can be reused upto 12 times.
8. Enzymatic fermentation is used for production of antibiotics.
9. When Biochemical reactions are
 - a) Chemo selective
 - Regio selective
 - c) Stereo selective
 - d) All the above.
10. Would you like to attend more sessions like this?
 - Yes
 - No

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Barkatpura, Hyderabad- 500 027.

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd – 09th Dec 2019

FEEDBACK FORM DAY – 5

- Name of the participant: G. Shirani
- Name of the institute: RBVRR women's college of pharmacy
- Email id of the participant : _____
- How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
- What is a catalyst?
The substance which alters the speed of chemical reaction.
- Nanomaterial's are the materials with at least one dimension measuring less than ?
 - 1nm
 - 10nm
 - 100nm
 - 1000nm.
- What are different dopants used for ceria
 - Zr⁴⁺
 - Hf⁴⁺
 - Ti⁴⁺
 - All of them.
- Which gas combines with the haemoglobin and hinders the oxygen transport
 - Carbon dioxide
 - Carbon monoxide
 - SO₂
 - N₂O
- Would you like to attend more sessions like this?
 - Yes
 - No

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Barkatpura, Hyderabad- 500 027.

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd – 09th Dec 2019

FEEDBACK FORM DAY – 5

- Name of the participant: J. Akanksha
- Name of the institute: RBVRR women's college of pharmacy
- Email id of the participant: _____
- How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
- What is a catalyst?
The substance which affects the speed of chemical reaction
- Nanomaterial's are the materials with at least one dimension measuring less than ?
 - 1nm
 - 10nm
 - 100nm
 - 1000nm.
- What are different dopants used for ceria
 - Zr⁴⁺
 - Hf⁴⁺
 - Ti⁴⁺
 - All of them.
- Which gas combines with the haemoglobin and hinders the oxygen transport
 - Carbon dioxide
 - Carbon monoxide
 - SO₂
 - N₂O
- Would you like to attend more sessions like this?
 - Yes
 - No

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CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd – 09th Dec 2019

FEEDBACK FORM DAY – 6

1. Name of the participant : Hajira rahman
2. Name of the institute: RBVRR women's college of pharmacy
3. Email id of the participant : _____
4. How was the content delivered by the speaker?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
5. How do you rate the session?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
6. Which of the following source of energy can be replenished after a short period of time?
 - a. Solar energy
 - b. Hydro energy
 - c. Coal
 - d. Both a and b
7. Greenhouse effect is due to _____ layer in the atmosphere?
 - a. Ozone
 - b. Infrared
 - c. Moisture
 - d. Carbon dioxide
8. Which Burning of fossil fuels results in
 - a. Increased oxygen levels
 - b. Decreased greenhouse gases
 - c. Increased greenhouse gases
 - d. Increased ethane level
9. Which of the following has maximum global warming potential?
 - a. Methane
 - b. Carbon dioxide
 - c. Nitrous oxide
 - d. Carbon monoxide.
10. Would you like to attend more sessions like this?
 - a. Yes
 - b. No

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CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd - 09th Dec 2019

FEEDBACK FORM DAY - 6

1. Name of the participant : Charanya S
2. Name of the institute: RBVRRWCP
3. E-mail id of the participant : _____
4. How was the content delivered by the speaker?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
5. How do you rate the session?
 - a. Excellent
 - b. Very Good
 - c. Good
 - d. Average
6. Which of the following source of energy can be replenished after a short period of time?
 - a. Solar energy
 - b. Hydro energy
 - c. Coal
 - d. Both a and b
7. Greenhouse effect is due to _____ layer in the atmosphere?
 - a. Ozone
 - b. Infrared
 - c. Moisture
 - d. Carbon dioxide
8. Which Burning of fossil fuels results in
 - a. Increased oxygen levels
 - b. Decreased greenhouse gases
 - c. Increased greenhouse gases
 - d. Increased ethane level
9. Which of the following has maximum global warming potential?
 - a. Methane
 - b. Carbon dioxide
 - c. Nitrous oxide
 - d. Carbon monoxide.
10. Would you like to attend more sessions like this?
 - a. Yes
 - b. No

RBVRR WOMEN'S COLLEGE OF PHARMACY

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Duskaipura, Hyderabad - 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd - 09th Dec 2019

FEEDBACK FORM DAY - 7

- Name of the participant: B. Manjula
- Name of the institute: rbvrrwlop
- Email id of the participant: _____
- How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
- What are cofactors?
Non-protein part, chemical compound & required for protein is biologically activity.
- Which of these enzymes are not proteinaceous?
 - Kinases
 - Endonucleases
 - Ligases
 - Ribozymes
- Which enzyme is used in the production of sitagliptin?
 - Ligases
 - Isomerases
 - Transaminases
 - Transferases
- Reductases are used to reduce activated alkene bonds in chiral fashion.
- Would you like to attend more sessions like this?
 - Yes
 - No

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Boikotpura Hyderabad - 500 027

CERTIFICATE COURSE ON GREEN CHEMISTRY IN DRUG DISCOVERY 02nd - 09th Dec 2019

FEEDBACK FORM DAY - 7

- Name of the participant: D. Vireetha
- Name of the institute: RBVRRWCOL
- Email id of the participant: _____
- How was the content delivered by the speaker?
 - Excellent
 - Very Good
 - Good
 - Average
- How do you rate the session?
 - Excellent
 - Very Good
 - Good
 - Average
- What are cofactors?
It is a non-protein part, and a chemical compound & help for protein is biological activity.
- Which of these enzymes are not proteinaceous?
 - Kinases
 - Endonucleases
 - Ligases
 - Ribozymes
- Which enzyme is used in the production of sitagliptin?
 - Ligases
 - Isomerases
 - Transaminases
 - Transferases
- Eno reductases are used to reduce activated alkene bonds in chiral fashion.
- Would you like to attend more sessions like this?
 - Yes
 - No

RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad – 5000 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

(Approved by the AICTE, PCI & Affiliated to Osmania University)

Recognized under section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGECET Code: RBVW1



Two-week certificate course on

“Advance Analytical Techniques”

04th april 2020-15th april 2020

INAUGRAL SESSION:

Mr. M. Soundarapandian,

Assistant Director,
Clearsynth Pvt, ltd,
Hyderabad.

FOR QUERIES:

Contact-

1. D.Sowjanya
(9494800885)
2. P. Kavya
(8919889059)

Registration details:

Free Registration

Last date to register: ~~03rd~~ april 2020

SCHEDULE

| DAY | DATE | SPEAKER | TOPIC |
|----------|--|---|--|
| DAY 1&2 | 4 rd & 6 th April 2020 | Mr. M. Soundarapandian, Assistant Director, Clearsynth Pvt, Ltd, Hyderabad. | Advancements in Chromatography |
| Day 3&4 | 7 th & 8 th April 2020 | Mr. A Venkata Rao Manager, LC-MS Department, Aurobindo Pharma Ltd, Hyderabad. | LC-MS & GC-MS |
| DAY 5&6 | 9 th & 10 th April 2020 | Dr. K. Bhavya Sri, Associate Professor, Head, Dept of Pharma Analysis, RBVRR Womens College | Analytical Method Validation |
| Day 7&8 | 11 th & 13 th April 2020 | Mr. Lalit kumar, Research Associate-IV, Aurobindo LTD, Hderabad | X- Ray Diffraction |
| Day 9&10 | 14 th & 15 th April 2020 | Industrial Visit;Mr. B. Sreekanth, AGM, HeadQuality Assurance, Caponex Labs Pvt Ltd, Hyderabad. | Inductive Coupled Plasma with Mass Spectroscopy. |

Day 1&2: Introduction to the programme (overview), welcoming principal mam and Speaker on to diase (giving bouquet) ,Inauguration, lightening of light, prayer song by students, principal mam addressing the gathering, giving introduction to speaker, at the end momento and vote of thanks

Day 3&4: welcome to day 3 and 4 Session, welcoming the speaker and introduction to speaker and session starts and at the end momento & vote of thanks.

Day 5&6: welcome to day 5 and 6 Session, welcoming the speaker and introduction to speaker and session starts and at the end momento & vote of thanks.

Day 7&8: welcome to day 7 and 8 Session, welcoming the speaker and introduction to speaker and session starts and at the end momento & vote of thanks.

Day 9 &10: welcome to day 9 and 10 Session, welcoming the Guest and introduction and session starts with industrial visit



RBVRR WOMEN'S COLLEGE OF PHARMACY

3-4-343, Barkathpura, Hyderabad - 500 027 (T.S), India

Office: +91 40-27563065, Mobile: +91 9848930555

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Recognized under Section 2(f) of the UGC Act 1956

EAMCET Code: RBVW | PGCET Code: RBVW1

www.rbvrrwcp.org | Email: rbvrrwcp@rediffmail.com & rbvrrwcp2006@gmail.com

College Code: 1706

| Value Added Course | | |
|---------------------------------------|-----------|----------------------|
| Course: Advance Analytical Techniques | | |
| Code:AATCC002 | Credits:2 | Total No.of Hours:36 |

The aim of conducting this certificate course is to impart advanced knowledge on the principles and instrumentation of spectroscopic and chromatographic hyphenated techniques. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing in Analytical and Bioanalytical laboratories

Objectives:-Objectives:- The Course Program in Advance Analytical Techniques is designed to provide participants with a comprehensive understanding of Analytical tools available and their advancements for the analysis of pharmaceutical products

SYLLABUS

| Unit 1 | Spectroscopic Techniques and their Advancements | 8 Hours |
|---|---|---------|
| NMR Spectroscopy:- Quantum numbers and their role in NMR, Principle, Instrumentation, Solvent requirement in NMR, Relaxation process, NMR signals in various compounds, Chemical shift, Factors influencing chemical shift, Spin-Spin coupling, Coupling constant, Nuclear magnetic double Resonance, Spin Spin and spin lattice relaxation phenomenon. 1D- NMR and 13CNMR. Mass Spectroscopy:- Principle, theory, instrumentation of mass spectrometry, different types of Ionization Techniques like Electron Impact, Chemical, Field, FAB and MALD, APCI, ESI, APPI, Mass fragmentation mechanism and its rules, meta stable ions, isotopic peaks and applications of mass spectrometry. | | |
| Unit 2 | Chromatographic Techniques and their Advancements | 6 Hours |
| Principle, Instrumentation and Pharmaceutical applications:- HPLC,UPLC, Nano LC, HILIC, GC, SFC | | |

| | | |
|---|------------------------------|----------------|
| Unit 3 | Hyphenated Techniques | 6 Hours |
| Principle, Instrumentation, Interfaces, Pharmaceutical applications:- LC-MS,GC-MS,ICP-MS, Tandem Mass systems | | |

| | | |
|---|------------------------------|----------------|
| Unit 4 | X-ray Crystallography | 4 Hours |
| Production of X rays, Different X ray methods, Bragg's law, Rotating crystal technique, X ray powder technique, Types of crystals and applications of X-ray diffraction | | |

| | | |
|-------------------------------------|--|----------------|
| Unit 5 | Qualification of Analytical Instruments | 6 Hours |
| NMR, MS,HPLC,UPLC,X-ray diffraction | | |

Advance Analytical Techniques Course Outcomes:

After completion of this course

- 1) The students will get adequate knowledge on recent advancement and basics of NMR and MS.
- 2) Students will know the principle and advanced applications of Nano LC, UPLC and HILIC.
- 3) Students aware of different hyphenated techniques like ICP-MS, LC-MS GC-MS etc.
- 4) Students are permitted to know in detail about the X- ray crystallography methods and application.
- 5) Students are familiar with the methods used for calibration and validations of Instruments